



ACCEPTED
with COMMENTS
by EPA 13-1-1-1

MAY 6 1975

For
EPA
Registration
No. 707-PA-1
33561-6

**FOR
INDUSTRIAL
USE ONLY**

WATER MANAGEMENT CHEMICALS

HERCULES® 5232 **MICROBIOCIDAL COMPOUND** **Cooling Water Treatment**

ACTIVE INGREDIENTS:

5 Chloro 2 methyl 4 isothiazolin 3 one 1.15%
2 Methyl 4 isothiazolin 3 one 0.35%

INERT INGREDIENTS:

TOTAL

98.50%
100.0%

MANUFACTURED BY:
ROWAN AND HAAS COMPANY
PHILADELPHIA, PA.
EPA Est. No. 707-PA-1
EPA Reg. No. 707-133-33561

DISTRIBUTED BY
HERCULES INCORPORATED
WILMINGTON, DELAWARE 19899, U.S.A.

BEST DOCUMENT AVAILABLE

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

DANGER

CORROSIVE. CAUSES EYE DAMAGE AND SKIN BURNS. MAY CAUSE ALLERGIC SKIN REACTION. MAY BE HARMFUL IF INHALED. MAY BE FATAL IF SWALLOWED OR ABSORBED THROUGH THE SKIN.

Do not get in eyes, on skin, on clothing. Wear goggles or face shield and rubber gloves when handling. Avoid breathing vapor or mist. Avoid contamination of food. Do not take internally. Wash thoroughly after handling.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife. Do not discharge into lakes, streams, ponds or public waters unless in accordance with an NPDES permit. For guidance, contact your Regional Office of the EPA. Do not contaminate water by cleaning of equipment or disposal of waste. Apply this pesticide only as specified on this label.

KEEP OUT OF REACH OF CHILDREN

DANGER

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Do not induce vomiting. Drink promptly a large quantity of milk, egg whites, gelatin solution or if these are not available, drink large quantities of water. Avoid alcohol. Call a physician immediately.

IF INHALED: Remove immediately to fresh air. If not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Call a physician.

IF ON SKIN: Wash thoroughly with soap and water. Remove and wash contaminated clothing before reuse.

IF IN EYES: Flush with plenty of water for at least 15 minutes. Call a physician.

NOTE TO PHYSICIAN: Probable mucousal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be needed.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

NOTICE: Seller warrants that the product conforms to its chemical description and is suitable for the purpose stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use, storage or handling of this product in a manner other than as directed by label instructions or under abnormal conditions or under conditions not reasonably foreseeable to seller and buyer assumes the risk of any such use.

DIRECTIONS FOR USE

GENERAL CLASSIFICATION

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

INDUSTRIAL RECIRCULATING WATER COOLING TOWERS

For the control of bacteria, algae and fungi add Hercules 5232 to the tower basin, distribution box or some other point to insure uniform mixing.

INITIAL DOSE: When the system is noticeably fouled, apply 148 to 883 ppm Hercules 5232 (1.26 to 7.46 pounds or 19 to 113 fluid ounces of Hercules 5232 per 1000 gallons of water in the system). Repeat until control is achieved.

SUBSEQUENT DOSE: When microbial control is evident, add 35 to 219 ppm Hercules 5232 (0.3 to 1.86 pounds or 4.5 to 28 fluid ounces of Hercules 5232 per 1000 gallons of water in the system) weekly or as needed to maintain control. Badly fouled systems must be cleaned before treatment is begun.

AIR WASHER SYSTEMS

Add to the air washer sump or chill water sump, to insure uniform mixing, 35 to 883 ppm Hercules 5232 (0.3 to 7.46 pounds or 4.5 to 113 fluid ounces of Hercules 5232 per 1000 gallons of water in the system) depending upon the severity of contamination to control bacteria, fungi and algae which cause fouling in industrial air washer systems.

INTERMITTENT OR SLUG METHOD

INITIAL DOSE: When the system is noticeably fouled, apply 148 to 883 ppm Hercules 5232 (1.26 to 7.46 pounds or 19 to 113 fluid ounces of Hercules 5232 per 1000 gallons of water in the system). Repeat until control is achieved.

SUBSEQUENT DOSE: When microbial control is evident, add 35 to 219 ppm Hercules 5232 (0.3 to 1.86 pounds or 4.5 to 28 fluid ounces of Hercules 5232 per 1000 gallons of water) weekly or as needed to maintain control.

CONTINUOUS FEED METHOD

INITIAL DOSE: When the system is just noticeably fouled, apply 148 to 883 ppm Hercules 5232 (1.26 to 7.46 pounds or 19 to 113 fluid ounces of Hercules 5232 per 1000 gallons of water in the system).

SUBSEQUENT DOSE: Maintain this treatment level by adding a continuous feed of 35 to 219 ppm Hercules 5232 (0.3 to 1.86 pounds or 4.5 to 28 fluid ounces of Hercules 5232 per 1000 gallons of makeup water).

Badly fouled systems must be cleaned before initial treatment.

NOTE: For use only in industrial air washing systems that maintain effective mist eliminating components.

Hercules 5232 weighs 8.4 lbs. per gallon.

STORAGE AND DISPOSAL

STORAGE: Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. If plastic, do not reuse empty container.

DISPOSAL: Pesticide or waste that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides. Triple rinse (or equivalent) containers and, for metal containers, offer for recycling or reconditioning; for plastic containers dispose in an incinerator or dispose in landfill approved for pesticide containers. Consult federal, state or local disposal authorities for approved alternative procedures.

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ACCEPTED
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by EPA REGION 1

DATE: 11/1/81

RECEIVED REGION 1

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CORRO
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CALL TOLL F

INDUSTRIAL RECIRCULATING WATER COOLING TOWERS

Control of bacteria, algae and fungi add Hercules 5232 to the tower distribution box or some other point to insure uniform mixing.

DOSE: When the system is noticeably fouled, apply 148 to 883 ppm Hercules 5232 (1.26 to 7.48 pounds or 19 to 113 fluid ounces of 5232 per 1000 gallons of water in the system). Repeat until controlled.

MAINTENANCE DOSE: When microbial control is evident, add 35 to 219 ppm Hercules 5232 (0.3 to 1.86 pounds or 4.5 to 28 fluid ounces of Hercules 5232 per 1000 gallons of water in the system) weekly or as needed to maintain control. Fouled systems must be cleaned before treatment is begun.

AIR WASHER SYSTEMS

On the air washer sump or chill water sump, to insure uniform mixing add 883 ppm Hercules 5232 (0.3 to 7.48 pounds or 4.5 to 113 fluid ounces of Hercules 5232 per 1000 gallons of water in the system) depending upon the severity of contamination to control bacteria, fungi and other organisms which cause fouling in industrial air washer systems.

SLUG METHOD

DOSE: When the system is noticeably fouled, apply 148 to 883 ppm Hercules 5232 (1.26 to 7.48 pounds or 19 to 113 fluid ounces of 5232 per 1000 gallons of water in the system). Repeat until controlled.

MAINTENANCE DOSE: When microbial control is evident, add 35 to 219 ppm Hercules 5232 (0.3 to 1.86 pounds or 4.5 to 28 fluid ounces of Hercules 5232 per 1000 gallons of water) weekly or as needed to maintain control.

CONTINUOUS FEED METHOD

DOSE: When the system is just noticeably fouled, apply 148 to 883 ppm Hercules 5232 (1.26 to 7.48 pounds or 19 to 113 fluid ounces of 5232 per 1000 gallons of water in the system).

MAINTENANCE DOSE: Maintain this treatment level by adding a continuous feed of 35 to 219 ppm Hercules 5232 (0.3 to 1.86 pounds or 4.5 to 28 fluid ounces of Hercules 5232 per 1000 gallons of makeup water). Fouled systems must be cleaned before initial treatment.

For use only in industrial air washing systems that maintain almost eliminating components.

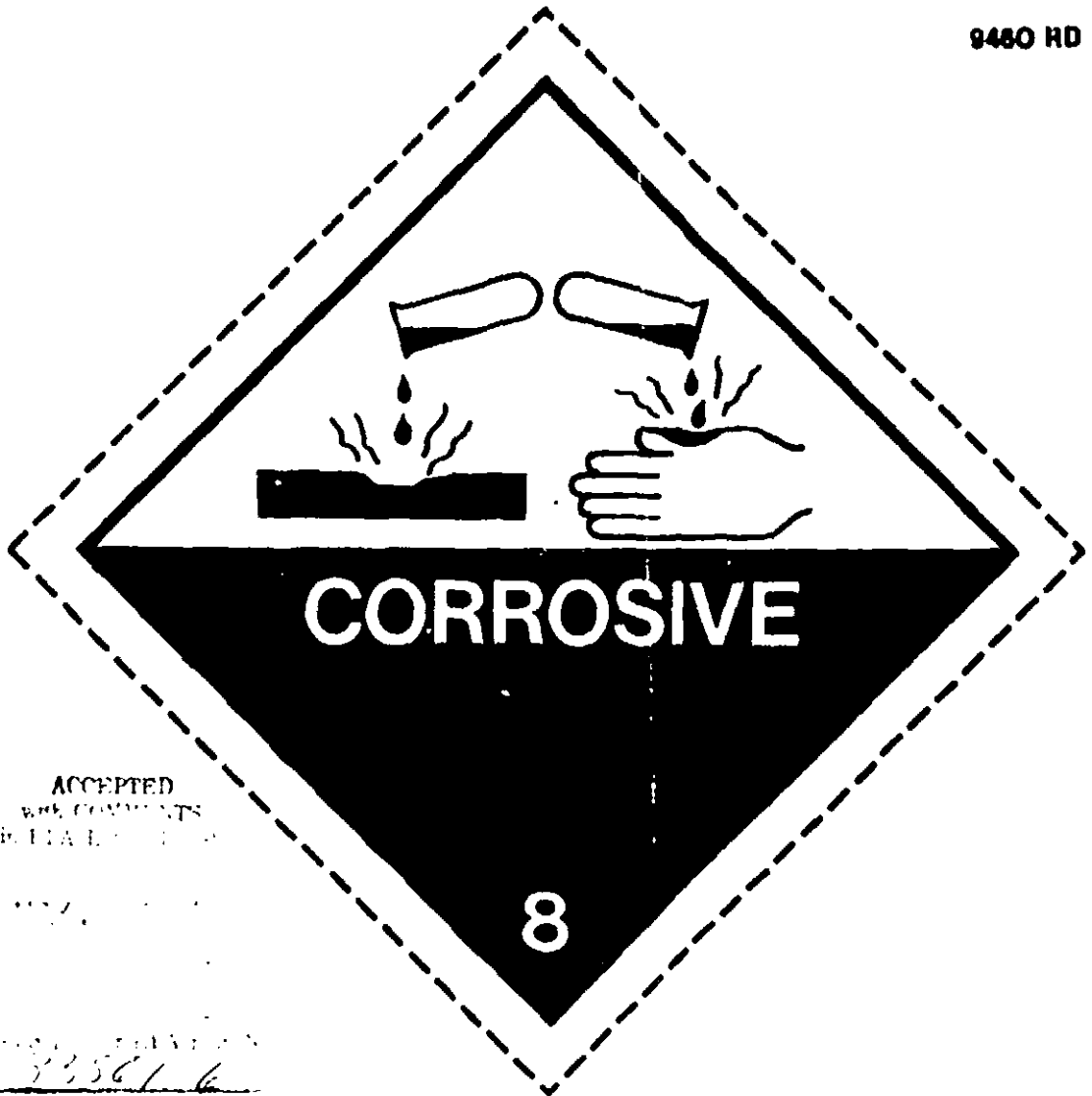
5232 weighs 8.4 lbs. per gallon.

STORAGE AND DISPOSAL

DO NOT contaminate water, food, or feed by storage or disposal. Spilling is prohibited. If plastic, do not reuse empty container.

AL: Pesticide or insecticide that cannot be used or chemically recycled should be disposed of in a landfill approved for pesticides. Triple rinse (or equivalent) all containers and, for metal containers, offer for recycling or, if not accepted, for destruction. For plastic containers, offer for recycling or, if not accepted, for destruction. Consult federal, state or local authorities for approved alternative procedures.

9480 HD



DOT Proper Shipping Name:

CORROSIVE LIQUID, N.O.S.

(5-Chloro-2-methyl-4-isothiazolin-3-one)

UN 1760

In event of emergency,

CALL TOLL FREE: 800-424-9300 (CHEMTREC)

GROSS WT

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AL

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f. For consistency revise the total percentage of ingredients to read 100.00%.

g. The following statements are required on the front panel:

KEEP OUT OF REACH OF CHILDREN

DANGER

See side panel for additional precautionary statements

The front panel is where the ingredient statement and product name is located.

h. Include the following statement to the front panel:

A Microbiocide for use in recirculating water cooling towers and air washer systems.

3. The revised Confidential Statement of Formula dated May 17, 1984, is acceptable and has been placed in your file.

4. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

5. This registration was processed under the total permission method as authorized by your supplier Rohm and Haas (letter dated April 16, 1984). The submitted matrix is not required for this method and therefore will not be reviewed to determine validity and/or acceptability. The matrix is only required for the owners submission method. Please note this for your records.

A stamped copy of the label is enclosed for your records.

[Signature]
John H. Lee
Product Manager (31)
Disinfectants Branch
Registration Division (FIS-767C)

Enclosure:

RD/DIS:PCW-44258; J. Lee:PCW:552-2226; PCW:5/25/84; Tel. 6/11/84

BEST COPY AVAILABLE